

SEQUENCE LISTING

<110> O'Hara Jr., Richard
Nagelin, Ann Marie

<120> AGENTS THAT SPECIFICALLY BLOCK
CD28-MEDIATED SIGNALING AND USES THEREFOR

<130> GNN-028

<150> 60/269,756

<151> 2001-02-16

<160> 2

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 3803

<212> DNA

<213> Homo sapiens

<400> 1

taaagtcac	aaaacaacgt	tatatcctgt	gtgaaatgct	gcagtcagga	tgccttgtgg	60
ttgagtgcct	tgatcatgtg	ccctaagggg	atggtggcgg	tgggtggggc	cgtggatgac	120
ggagactctc	aggccttggc	agggtgcgtc	ttcagttccc	ctcacacttc	gggttcctcg	180
gggaggaggg	gctggaaccc	tagcccatcg	tcaggacaaa	gatgctcagg	ctgctcttgg	240
ctctcaactt	attcccttca	attcaagtaa	caggaaacaa	gattttgggtg	aagcagtcgc	300
ccatgcttgt	agcgtacgac	aatgcggtca	accttagctg	caagtattcc	tacaatctct	360
tctcaaggga	gttccgggca	tcccttcaca	aaggactgga	tagtgctgtg	gaagtctgtg	420
ttgtatatgg	gaattactcc	cagcagcttc	aggtttactc	aaaaacgggg	ttcaactgtg	480
atgggaaatt	gggcaatgaa	tcagtgcac	tctacctcca	gaatttgtat	gttaacccaa	540
cagatatatta	cttctgcaaa	attgaagtta	tgtatcctcc	tccttaccta	gacaatgaga	600
agagcaatgg	aaccattatc	catgtgaaag	ggaaacacct	ttgtccaagt	cccctatttc	660
ccggaccttc	taagcccttt	tgggtgctgg	tgggtggttg	tggagtcctg	gcttgctata	720
gcttgctagt	aacagtggcc	tttattattt	tctgggtgag	gagtaagagg	agcaggctcc	780
tgcacagtga	ctacatgaac	atgactcccc	gccgccccgg	gcccaccgc	aagcattacc	840
agccctatgc	cccaccacgc	gacttcgcag	cctatcgctc	ctgacacgga	cgcctatcca	900
gaagccagcc	ggctggcagc	ccccatctgc	tcaatatcac	tgctctggat	aggaaatgac	960
cgccatctcc	agccggccac	ctcaggcccc	tgttgggcca	ccaatgccaa	ttttctcga	1020
gtgactagac	caaatatcaa	gatcattttg	agactctgaa	atgaagtaaa	agagatttcc	1080
tgtgacaggc	caagtcttac	agtgccatgg	cccacattcc	aacttaccat	gtacttagtg	1140
acttgactga	gaagttaggg	tagaaaacaa	aaagggagtg	gattctggga	gcctcttccc	1200
tttctcactc	acctgcacat	ctcagtcaag	caaagtgtgg	tatccacaga	cattttagtt	1260
gcagaagaaa	ggctaggaaa	tcattccttt	tgggttaaag	ggtgtttaat	cttttgggta	1320
gtgggttaaa	cggggtaagt	tagagtgggg	ggagggatag	gaagacatat	ttaaaaacca	1380
ttaaaaacact	gtctcccaact	catgaaatga	gccacgtagt	tcctatttaa	tgctgttttc	1440
ctttagttta	gaaatacata	gacattgtct	tttatgaatt	ctgatcatat	ttagtcattt	1500
tgaccaaattg	agggatttgg	tcaaatgagg	gattccctca	aagcaatatc	aggtaaacca	1560
agttgctttc	ctcactccct	gtcatgagac	ttcagtggtta	atgttcacaa	tatactttcg	1620
aaagaataaaa	atagttctcc	tacatgaaga	aagaatatgt	caggaaataa	ggtcacttta	1680
tgtcaaaatt	atttgagtac	tatgggacct	ggcgagctgg	ctcatgcttg	taatcccagc	1740
actttgggag	gccgaggtgg	gcagatcaact	tgagatcagg	accagcctgg	tcaagatggg	1800
gaaactccgt	ctgtactaaa	aatacaaaa	ttagcttggc	ctggtggcag	gcacctgtaa	1860
tcccagctgc	ccaggaggct	gaggcatgag	aatcgcttga	acctggcagg	cggaggttgc	1920
agtgaagcca	gatagtcca	cagctctcca	gcctgggcca	cagagtgaga	ctccatctca	1980
aacaacaaca	acaacaacaa	caacaacaac	aaaccacaaa	attatttgag	tactgtgaag	2040

gattattttgt ctaacagttc attccaatca gaccaggtag gagctttcct gtttcatatg 2100
 tttcaggggtt gcacagttgg tctctttaat gtcggtgtgg agatccaaag tgggttgtgg 2160
 aaagagcgtc cataggagaa gtgagaatac tgtgaaaagg gatgttagca ttcattagag 2220
 tatgaggatg agtcccaaga aggttctttg gaaggaggac gaatagaatg gagtaatgaa 2280
 attcttgcca tgtgctgagg agatagccag cattaggtga caatcttcca gaagtggta 2340
 ggcagaaggt gcctgggtga gagctccttt acagggaactt tatgtgggtt agggctcaga 2400
 gtcctcaaac tctgggctca gctgctcctg taccttggag gtccattcac atgggaaagt 2460
 attttggaaat gtgtcttttg aagagagcat cagagttctt aagggaactgg gtaaggcctg 2520
 accctgaaat gaccatggat atttttctac ctacagtttg agtcaactag aatatgcctg 2580
 gggaccttga agaatgccct tcagtggccc tcaccatttg ttcattgctt agttaattca 2640
 ggtgttgaag gagcttaggt ttttagaggca cgtagacttg gttcaagtct cgtttagtagt 2700
 tgaatagcct caggcaagtc actgcccacc taagatgatg gttottcaac tataaatgga 2760
 gataatggtt acaaatgtct ctctctatag tataatctcc ataaggcat ggcccaagtc 2820
 tgtctttgac tctgcctatc cctgacgttt agtagcatgc ccgacataca atgttagcta 2880
 ttggtattat tgccatatag ataaattatg tataaaaatt aaactgggca atagcctaag 2940
 aaggggggaa tattgtaaca caaatttaaa cccactacgc agggatgagg tgctataata 3000
 tgaggacctt ttaacttcca tcaatttctt gtttcttgaa atagtttatc ttgtaatgaa 3060
 atataaggca cctcccactt ttatgtatag aaagaggtct ttttaattttt ttttaatgtg 3120
 agaaggaagg gaggagtagg aatcttgaga ttccatatcg aaaatactgt actttgggtg 3180
 atttttaagt gggcttccat tccatggatt taatcagtc caagaagatc aaactcagca 3240
 gtacttgggt gctgaagaac tgttggattt accctggcac gtgtgccact tgcccagctt 3300
 cttgggcaca cagagttctt caatccaagt tatcagattg tatttgaaaa tgacagagct 3360
 ggagagtttt ttgaaatggc agtggcaaat aaataaatac ttttttttaa atggaaagac 3420
 ttgatctatg gtaataaatg attttgtttt ctgactggaa aaataggcct actaaagatg 3480
 aatcacactt gagatgtttc ttactcactc tgcacagaaa caaagaagaa atgttataca 3540
 gggaagtccg ttttactat tagtatgaac caagaaatgg ttcaaaaaca gtggtaggag 3600
 caatgctttc atagtttcag atatggtagt tatgaagaaa acaatgtcat ttgctgctat 3660
 tattgtaaga gtcttataat taatggtact cctataattt ttgattgtga gctcacctat 3720
 ttgggttaag catgccaat taaagagacc aagtgtatgt acattatgtt ctacatattc 3780
 agtgataaaa ttactaaact act 3803

<210> 2

<211> 219

<212> PRT

<213> Homo sapiens

<400> 2

Met Leu Arg Leu Leu Leu Ala Leu Asn Leu Phe Pro Ser Ile Gln Val
 1 5 10 15
 Thr Gly Asn Lys Ile Leu Val Lys Gln Ser Pro Met Leu Val Ala Tyr
 20 25 30
 Asp Asn Ala Val Asn Leu Ser Cys Lys Tyr Ser Tyr Asn Leu Phe Ser
 35 40 45
 Arg Glu Phe Arg Ala Ser Leu His Lys Gly Leu Asp Ser Ala Val Glu
 50 55 60
 Val Cys Val Val Tyr Gly Asn Tyr Ser Gln Gln Leu Gln Val Tyr Ser
 65 70 75 80
 Lys Thr Gly Phe Asn Cys Asp Gly Lys Leu Gly Asn Glu Ser Val Thr
 85 90 95
 Phe Tyr Leu Gln Asn Leu Tyr Val Asn Gln Thr Asp Ile Tyr Phe Cys
 100 105 110
 Lys Ile Glu Val Met Tyr Pro Pro Tyr Leu Asp Asn Glu Lys Ser
 115 120 125
 Asn Gly Thr Ile Ile His Val Lys Gly Lys His Leu Cys Pro Ser Pro
 130 135 140
 Leu Phe Pro Gly Pro Ser Lys Pro Phe Trp Val Leu Val Val Val Gly
 145 150 155 160
 Gly Val Leu Ala Cys Tyr Ser Leu Leu Val Thr Val Ala Phe Ile Ile
 165 170 175

2061221-12592001

Phe	Trp	Val	Arg	Ser	Lys	Arg	Ser	Arg	Leu	Leu	His	Ser	Asp	Tyr	Met
			180					185					190		
Asn	Met	Thr	Pro	Arg	Arg	Pro	Gly	Pro	Thr	Arg	Lys	His	Tyr	Gln	Pro
			195				200					205			
Tyr	Ala	Pro	Pro	Arg	Asp	Phe	Ala	Tyr	Arg	Ser					
	210					215									

2025 FEB 20 14:59Z 001